

PART 1 GENERAL

1.1 RELATED WORK

- .1 Section 01 35 24 – Special Procedures on Fire Safety Requirements.

1.2 REFERENCES

- .1 Canadian Standards Association (CSA)
 - .1 CSA S269.1 Falsework for Construction Purposes.
 - .2 CAN/CSA-Z259.1 Safety Belts and Lanyards.
 - .3 CAN/CSA-Z259.10 Full body Harnesses.
 - .4 CAN/CSA-Z259.11 Shock Absorbers for Personal Fall Arrest Systems.
 - .5 CAN/CSA-Z259.2, Fall Arresting Devices, Personnel Lowering Devices and Lifelines.
 - .6 FCC No. 301 Standard for Construction Operations.
- .2 FCC No. 302 Standard for Welding and Cutting.
- .3 Transportation of Dangerous Goods Act Regulations.
- .4 Newfoundland Occupational Health and Safety Act, Amended
- .5 Consolidated Newfoundland and Regulations 1149 WMIS Regulations Under the Occupational Health and Safety Act
- .6 Consolidated Newfoundland and Regulations 1165 Occupational Health and Safety Regulations under the Occupational Health and Safety Act.
- .7 Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations.
- .8 National Building Code of Canada.
- .9 CAN/CSA-Z275.2 – Occupational Safety Code for Diving Operations
- .10 CAN/CSA-Z275.4 – Competency Standard for Diving Operations

1.3 SUBMITTALS

- .1 At least 10 (ten) working days prior to commencing any site work: submit to Departmental Representative copies of:
 - .1 A Site Specific Health and Safety Risk Assessment and Management Plan.
 - .2 If work entails confined space, submit copies of confined space entry training certificates.
 - .3 Building Permit, compliance certificates and other permits obtained.

- .4 Reports or directions issued by Federal, Provincial and safety inspectors or other Authority having jurisdiction.
- .5 Incident and accident reports.
- .6 WHMIS MSDS – Material Safety Data Sheets.
- .7 Name of Contractor’s Representative designated to perform full time health and safety supervision on site.
- .8 Letter of Good Standing/Certificate of Clearance from the Provincial Worker’s Compensation Board.
- .2 Medical Surveillance: Obtain and maintain worker medical surveillance documentation for work posing a potential health hazard to workers as stipulated in Federal or Provincial Occupational Health and Safety Regulations. Upon request, submit copy of documentation to Departmental Representative.
- .3 Upon request by Departmental Representative, submit reports and other documentation as stipulated to be produced and maintained by Federal and Provincial Occupational Health and Safety regulations and as specified herein.
- .4 Submit above documents in accordance with the submittal procedure specified in Section 01 33 00.

1.4 COMPLIANCE REQUIREMENTS

- .1 Comply with the Occupational Health and Safety Act for the Province of Newfoundland and Labrador, and the Occupational Health & Safety Regulations made pursuant to the Act.
- .2 Comply with Canada Labour Code Part II and the Canada Occupational Safety and Health Regulations made under Part II of the Canada Labour Code.
- .3 Observe and enforce construction safety measures required by:
 - .1 National Building Code of Canada, latest edition, Part 8;
 - .2 Provincial Worker’s Compensation Board;
 - .3 Municipal statutes and ordinances.
- .4 In event of conflict between any provisions of above authorities the most stringent provision will apply. Should a dispute arise in determining the most stringent requirement, Departmental Representative will advise on the course of action to be followed.
- .5 A copy of the Canada Labour Code Part II may be obtained by contacting:
Canadian Government Publishing
Public Works & Government Services Canada, Ottawa, Ontario, K1A 0S9
Tel: (819) 956-4800 (1-800-635-7943)
Publication No. L31-85/2000 E or F

- .6 Maintain Workers Compensation Coverage for duration of Contract. Submit a current letter of Good Standing to Departmental Representative when submitting site specific Health and Safety Plan and with each Request for Progress Payment.

1.5 RESPONSIBILITY

- .1 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.
- .2 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.

1.6 SITE CONTROL AND ACCESS

- .1 Control work site and entry points to construction areas.
 - .1 Delineate and isolate construction areas from other areas of site by use of appropriate means.
 - .2 Post notices and signage at entry points and at other strategic locations identifying that entrance onto site to be restricted to authorized persons only.
 - .3 Signage must be professionally made bilingual (in both official languages) or display internationally understood graphic symbols
- .2 Approve and grant access to site only to workers and authorized persons.
 - .1 Immediately stop non-authorized persons from circulating in construction areas and remove from site.
 - .2 Provide site safety orientation to all persons before granting access. Advise of site conditions, hazards and mandatory safety rules to be observed on site.
- .3 Secure site at night time to extent required to protect against unauthorized entry. Provide security guard where protection cannot be achieved by other means.
- .4 Ensure persons granted access to site wear appropriate personal protective equipment (PPE) suitable to work and site conditions.
 - .1 Provide such PPE to authorized persons who require access to perform inspections or other approved purposes.

1.7 PROTECTION

- .1 Carry out work placing emphasis on health and safety of public, facility personnel, construction workers and protection of the environment.
- .2 Erect safety barricades, lights and signage on site to effectively delineate work areas, protect pedestrians and vehicular traffic around and adjacent to work and to create a safe a working environment.

- .1 Erect fences, hoarding, protective barriers and temporary lighting as required.
See Section 01 56 00 for minimum acceptable barricades.
- .3 Should unforeseen or peculiar safety related hazard or condition become evident during performance of work, immediately take measures to rectify situation and prevent damage or harm. Advise Departmental Representative verbally and in writing.

1.8 PERMITS

- .1 Obtain building permit licenses, compliance certificates and other permits as specified in Section 01 10 10 before and during progress of work. Post on site.
- .2 Where particular permit or compliance certificate cannot be obtained at the required stage of work, notify Departmental Representative in writing and obtain Departmental Representative's approval to proceed prior to carrying out that portion of work.

1.9 HAZARD ASSESSMENTS

- .1 Conduct site specific health and safety hazard assessment before commencing project and during course of work identifying risks and hazards resulting from site conditions, weather conditions and work operations.
 - .1 Perform on-going assessments addressing new risks and hazards as work progresses (including when new subtrade or sub-contractor arrives on site).
 - .2 Also, conduct assessment when the scope of work has been changed by Change Order and when potential hazard or weakness in current health and safety practices are identified by Departmental Representative or by an authorized safety representative.
- .2 Record results in writing and address in Health and Safety Plan.
- .3 Keep copy of all assessments on site.

1.10 PROJECT/SITE CONDITIONS

- .1 The following are known or potential project related safety hazards at site:
 - .1 Working in close proximity of water.
 - .2 Use of water crafts and floating platforms.
 - .3 Wet and slippery conditions.
 - .4 Inclement weather.
 - .5 Potential structural weakness of existing structures.
 - .6 Heavy equipment activity in the area.
 - .7 Heavy lifting.
 - .8 Working from heights.
 - .9 Cutting tools and other construction/power tools.
 - .10 Overhead power/utility lines.
 - .11 Risk of electric shock.

- .12 Vehicular/pedestrian traffic.
- .13 Confined spaces.
- .2 Above lists shall not be construed as being complete and inclusive of potential health and safety hazards encountered during work. Include above items into hazard assessment process.
- .3 Obtain from Departmental Representative, copy of MSDS Data sheets for existing hazardous products stored on site or being used by Facility personnel.

1.11 HEALTH AND SAFETY MEETINGS

- .1 Attend pre-construction health and safety meeting conducted by Departmental Representative. Have Contractor's Site Superintendent and Contractor's designated health and safety site supervisor in attendance. Departmental Representative will advise date, time and location.
- .2 Conduct health and safety meetings and tool box briefings on site. Hold on a regular and pre-scheduled basis during entire work in accordance with requirements and frequency as stipulated in provincial Occupational Health and Safety Regulations.
 - .1 Keep workers informed of potential hazards and provide safe work practices and procedures to be followed.
 - .2 Take written minutes and post on site.
- .3 Conduct formal meetings on a minimum monthly basis.

1.12 HEALTH AND SAFETY PLANS

- .1 Develop written site-specific Project Health & Safety Plan, based on hazard assessments prior to commencement of work.
 - .1 Submit copy to Departmental Representative within seven (7) calendar days of acceptance of bid.
 - .2 Submit updates as work progresses,
- .2 Health and Safety Plan shall contain three (3) parts with the following information:
 - .1 Part 1 – Hazards: List individual health risks and safety hazards identified by hazard assessment process.
 - .2 Part 2 – Safety Measures: Engineering controls, personal protective equipment and safe work practices used to mitigate hazards and risks listed in Part 1 of Plan.
 - .3 Part 3a: Emergency Response – Standard operating procedures, evacuation measures and emergency response in the occurrence of an accident, incident or emergency.
 - .1 Include response to all hazards listed in Part 1 of Plan.
 - .2 Evacuation measures to complement the Facility's existing Emergency Response and Evacuation Plan. Obtain pertinent information from Departmental Representative.

- .3 List names and telephone numbers of officials to contact including:
- .1 General Contractor and all sub-contractors.
 - .2 Federal and Provincial Departments as stipulated by laws and regulations of authorities having jurisdiction and local emergency resource organizations as needed based on nature of emergency.
 - .3 Officials from DFO and site Facility Management. Departmental Representative will provide list.
- .4 Part 3b: Site Communications:
- .1 Procedures used on site to share work related safety issues between workers, sub-contractors and General Contractor.
 - .2 List of critical tasks and work activities, to be communicated with the Facility Manager, which has risk of affecting tenant operations or endangering health and safety of Facility personnel and the general public. Develop list in consultation with the Departmental Representative.
- .3 Prepare Health and Safety Plan in a three column format, addressing the three parts specified above, as follows:
- | Column 1 | Column 2 | Column 3 |
|-------------------|-----------------|--------------------|
| Part 1 | Part 2 | Part 3a/3b |
| Identified Hazard | Safety Measures | Emergency Response |
- .4 Develop Plan in collaboration with sub-contractors. Address work activities of all trades. Revise and update Plan as sub-contractors arrive on site.
- .5 As work progresses, review and update Plan. Address additional health risks and safety hazards identified by on-going hazard assessments.
- .6 Post copy of Plan and updates on site.
- .7 Submission of the Health and Safety Plan and updates to the Departmental Representative, is for review and information purposed only. Departmental Representative receipt, review and any comments made of the Plan shall not be construed to imply approval in part or in whole, of such Plan by Departmental Representative and shall not be interpreted as a warranty of being complete and accurate or as a confirmation that all health and safety requirements of the work have been addressed and that it is legislative complaint. Furthermore, Departmental Representative's review of the Plan shall not relieve the Contractor of any of his legal obligations for Occupational Health and Safety provisions specified as part of the work and those required by Provincial legislation or those which would otherwise be applicable to the site of the work.

1.13 SAFETY SUPERVISION AND INSPECTION

- .1 Designate one (1) person to be present on site at all times, responsible for supervising health and safety of the work.
 - .1 Person to be competent in Occupational Health and Safety Construction Safety as defined in the Provincial Occupational Health and Safety Act.
- .2 Assign responsibility, obligation, and authority to such designated person (s) to stop work as deemed necessary for reasons of health and safety.
- .3 Conduct regularly scheduled informal safety inspections of work site on a minimum bi-weekly bases.
 - .1 Note deficiencies and remedial action taken in a log book or diary.
- .4 Conduct Formal Inspections on a minimum monthly basis.
 - .1 Use standardized safety checklist forms.
 - .2 Prepare written report for each inspection. Document deficiencies, remedial actions needed and assign responsibility for rectifications to appropriate subcontractor or worker.
 - .3 Distribute monthly reports to subcontractors for this pursuance.
 - .4 Follow-up and ensure appropriate action and corrective measures are taken.
- .5 Cooperate with site's Health and Safety Coordinator responsible for the entire stie, should one be designated by Departmental Representative.
- .6 Keep Inspection reports on site.

1.14 NOTIFICATION

- .1 For projects exceeding thirty (30) days or more, the contractor shall, prior to the commencement of work, notify in writing the Departmental Representative and the Work Place Health and Safety Division, Department of Labour with the following information:
 - .1 Name and location of construction site.
 - .2 Company name and mailing address of contractor doing the work.
 - .3 The number of workers to be employed.
 - .4 A copy of the Health and Safety Risk Assessment and Management Plan if requested.

1.15 TRAINING

- .1 Ensure that all workers and other persons granted access to site are competently trained and knowledgeable on:
 - .1 Safe use of tools and equipment.
 - .2 How to wear and use personal protective equipment (PPE).
 - .3 Safe work practices and procedures to be followed in carrying out work.

- .4 Site conditions and minimum safety rules to be observed on site as given in site orientation session.
- .2 Maintain evidence and records of worker training.

1.16 MINIMUM SITE SAFETY RULES

- .1 Notwithstanding the requirement to abide by federal and provincial health and safety regulations, the following safety rules shall be considered minimum requirements to be obeyed by all persons granted access:
 - .1 Wear personal protective equipment (PPE) appropriate to function and task on site; the minimum requirements being hard hat, safety footwear and eye protection and for work on or near water, a personal flotation device.
 - .2 Immediately report unsafe activity or condition at site, near-miss accident, injury and damage.
 - .3 Maintain site in tidy condition.
 - .4 Obey warning signs and safety tags.
- .2 Brief workers on site safety rules and on the disciplinary measures to be taken by Departmental Representative for violation or non-compliance of such rules. Post rules on site.
- .3 The following actions or conduct by Contractor, workers and sub-contractors will be considered as non conformance with the health and safety requirements of the contract for which a Non-Compliance Notification will be issued to the General Contractor by the Departmental Representative:
 - .1 Failure to follow the minimum site safety rules specified above.
 - .2 Negligence resulting in serious injury or major property damage.
 - .3 Deliberate non-compliance with Federal and Provincial Acts and Regulations.
 - .4 Falsification of information in Workers Compensation Reports, safety reports and other health and safety related documents submitted to Departmental Representative or to Authority having jurisdiction.
 - .5 Possession of firearms on site.
 - .6 Possession of non-prescription illegal drugs or alcohol.
 - .7 Action, or lack thereof, resulting in the issuance of Warnings, Fines or Stop Work Orders from a Provincial Authority having jurisdiction.
 - .8 Violation of other specified health and safety rules and requirements as determined by Departmental Representative.

1.17 ACCIDENT REPORTING

- .1 Investigate and report the following incidents and accidents:
 - .1 Those as required by Provincial Occupational Health and Safety Act and Regulations.

- .2 Injury requiring medical aid as defined in the Canadian Dictionary of Safety Terms-1987, published by the Canadian Society of Safety Engineers (CSSE) as follows:
 - .1 Medical Aid Injury: any minor injury for which medical treatment was provided and the cost of which is covered by Workers' Compensation Board of the province in which the injury was incurred.
 - .3 Property damage in excess of \$5,000.00
 - .4 Interruption to facility operations with potential loss to a Federal Department in excess of \$5,000.00.
 - .5 Those which require notification to Workers Compensation Board or other regulatory agencies as stipulated by applicable law or regulations.
- .2 Send written report to Departmental Representative for all above cases.

1.18 TOOLS AND EQUIPMENT SAFETY

- .1 Routinely check and maintain tools, equipment and machinery for safe operation.
- .2 Conduct checks as part of site safety inspections. When requested, submit proof that checks and maintenance have been carried out.
- .3 Tag and immediately remove from site items found faulty or defective.

1.19 HAZARDOUS PRODUCTS

- .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS).
- .2 Keep MSDS data sheets for all products delivered to site. Post on site. Submit copy to Departmental Representative upon receipt.

1.20 BLASTING

- .1 Blasting or other use of explosives is not permitted without prior written instructions from Departmental Representative.
- .2 Do blasting operations in accordance with local and provincial codes.

1.21 POWDER ACTUATED DEVICES

- .1 Use powder actuated fastening devices only after receipt of written permission from Departmental Representative.

1.22 CONFINED SPACES

- .1 Carry out work in confined spaces in compliance with:
 - .1 Provincial Occupational Health and Safety Regulations and

- .2 Canada Occupational Safety and Health Regulations (COSH) made under the Canada Labour Code – Part II.
- .2 Conduct hazard assessment and address in Safety Plan before entering confined space.
- .3 Provide and maintain equipment and PPE as required for safety and emergency evacuation of persons entering confined spaces.
- .4 Provide training to persons who will be entering and to those persons who will be assisting in the confined space entry process. Training to be specialized instructions beyond basis confined space entry information as required to suit type and conditions of confined space.
- .5 Safety for Inspectors:
 - .1 Upon request, provide PPE and training to Departmental Representative and to other authorized person, for the purpose of entering confined space to conduct inspections.
 - .2 Be responsible for the efficacy of the equipment and safety of such person during their entry and occupancy in the confined space.

1.23 POSTING OF DOCUMENTS

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on site in accordance with Acts and Regulations of Province and authority having jurisdiction, and in consultation with Departmental Representative.

1.24 SITE RECORDS

- .1 Maintain on site a copy of all health and safety documentation and reports specified to be produced as part of the work and received from authorities having jurisdiction.
- .2 Upon request, make available to Departmental Representative or authorized safety representative, for review. Provide copy when directed by Departmental Representative.

1.25 DIVING OPERATIONS

- .1 All diving work to comply full with the requirements of the latest editions of CSA Standard Z275.2 “Occupational Safety Code for Diving Operations”, CSA Z275.4, “Competency Standards for Diving Operations” and CSA Z180.1, “Compressed Breathing Air and Systems”.
- .2 Dive personnel must meet minimum competency requirements of the latest edition of CSA Z275.4 and all divers must possess a valid Category I Diving Certificate or an unrestricted surface supply certificate.
- .3 Diving in free-swim mode is not permitted at the work site.

- .4 Divers must have a current (less than one year) validated medical examination certificate from a licensed diving physician in Newfoundland and Labrador, who is knowledgeable and competent in diving and hyperbaric medicine, for all dives.

1.26 OVERLOADING

- .1 Ensure no part of work or associated equipment is subjected to loading that will endanger its safety or will cause permanent deformation.

1.27 FALSEWORK

- .1 Design and construct falsework in accordance with CSA S269.1.

1.28 PERSONAL PROTECTIVE EQUIPMENT

- .1 Ensure workers on the jobsite use personal protective equipment appropriate to the hazards identified in the Risk Assessment and Management Plan and those workers are trained in the proper care, use, and maintenance of such equipment.
- .2 PPE selections shall be based on an evaluation of the performance characteristics of the PPE relative to the requirements and limitations of the site, task-specific conditions, duration and hazards and potential hazards identified on site.
- .3 Provide all workers and up to two (2) visitors to the site with proper hearing protection. Workers and visitors shall not be exposed to noise levels greater than 85 dB (A) over an eight hour shift without proper hearing protection.
- .4 Provide all workers and up to two (2) visitors to the site with CSA approved eye protection sufficient to act as a protective barrier between the eye and airborne contaminants, hazardous materials and physical hazard.
- .5 Provide workers and up to two (2) visitors to the site with CSA approved hard hats.

1.29 TRAFFIC CONTROL

- .1 Provide traffic control measures when working on, or adjacent to, roadways in accordance with the "Traffic Control Manual for Roadwork Operations", Department of Transportation and Works.

1.30 HEAVY EQUIPMENT

- .1 Ensure mobile equipment used on jobsite is of the type specified in OH&S Act and Regulations fitted with a Roll Over Protective (ROP) Structure.
- .2 Provide certificate of training in Power Line Hazards for operators of heavy equipment.
- .3 Obtain written clearance from the power utility where equipment is used in close proximity to (within 5.5 metres) overhead or underground power lines.

- .4 Equip cranes with:
 - .1 A mechanism which will effectively prevent the hook assembly from running into the top boom pulley.
 - .2 A legible load chart.
 - .3 A maintenance log book.

1.31 WORK STOPPAGE

- .1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations of Work.

END OF SECTION